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System Log Commands



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Chapter 1 System Log Commands

1.1 logging console

[Function]

Configure and start to print the log information and parameters of console, the **no** command will disable the logging information print.

[Command Format]

logging console {<0-7> | *alerts* | *critical* | *debugging* | *emergencies* | *errors* | *informational* | *notifications* | *warnings*}

no logging console

[Parameter]

<0-7>: log severity

alerts: need action immediately (severity=1)

critical: serious state (severity =2)

debugging: debug information (severity =7)

emergencies: system can not use (severity =0)

errors: error condition (severity =3)

informational: informational event (severity =6)

notifications: normal event under critical condition (severity=5)

warnings: warning condition (severity=4)

[Default]

Enable and the severity is **informational**

[Command Modes]

Global configuration mode; Privileged EXEC

[Executing Command Instruction]

Use this command to configure print logging information to console.

Severity of logging information.

Grade key words	Severity	Description
emergencies	0	System can not use
alerts	1	Need action immediately
critical	2	Serious event
errors	3	Error event
warnings	4	Warning event
notifications	5	Normal but critical
informational	6	Inform message

debugging	7	Debug information
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[Command Executing Echo]

Set console logging information successfully

[Example]

Configure the severity level of logging console as alerts:

Raisecom(config)#logging console alerts

[Related commands]

Commands	Description
Logging monitor	Enable output direction of log monitor.
logging host	Enable output direction of log host.
logging file	Enable output direction of log file
logging on	Enable log function
logging time-stamp	Set time stamp of log information
logging rate	Set output speed of log
show logging	Show log information

1.2 logging file

[Function]

Configure and start to record logging file to flash file, the **no** command will disable events to be logged in log output direction.

[Command Format]

logging file

no logging file

[Default]

Enable log information to logging file.

The mode of output is config

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to output log information to flash file.

[Explanation of command execution echo]

Set successfully.

[Example]

Use this command to record log information in logging file.

Raisecom(config)#logging file

[Related commands]

Commands	Description
Logging console	Enable output direction of log console
logging monitor	Enable output direction of log monitor.
logging file	Enable output direction of log file.
logging on	Enable log function
logging time-stamp	Set time stamp of log information
logging rate	Set output speed of log
show logging	Show log information

1.3 logging host

[Function]

Configure and start to log events and parameters to assigned PC, the **no** command will disable the log.

[Command Format]

logging host A.B.C.D {local0/local1/local2/local3/local4/local5/local6/local7}
{<0-7>|alerts/critical/debugging/emergencies/errors/informational/notifications/warnings}

no logging host A.B.C.D

[Parameter]

local0-local7: equipment name of log host

<0-7>: log grade

alerts: need action immediately (severity=1)

critical: serious state (severity =2)

debugging: debug information (severity =7)

emergencies: system not available (severity =0)

errors: error condition (severity =3)

informational: informational event (severity =6)

notifications: normal and critical event (severity =5)

warnings: warning condition (severity=4)

[Default]

No assigned log host

[Command Modes]

Global configuration mode; Privileged EXEC.

[Executing Command Instruction]

Use this command to configure the assigned log host and the log severity.

Log description of log host:

Grade keywords	Grade	Description
emergencies	0	System not available
alerts	1	Need action immediately
critical	2	Serious event
errors	3	Error event
warnings	4	Warning event
notifications	5	Normal but critical event
informational	6	Inform message
debugging	7	Debug information

[Explanation of command execution echo]

Set log host logging information successfully.

Set log host logging information unsuccessfully.

[Example]

Set log grade of the logging host as alearts and all of the information lower or equal to this log grade will be output to the host:

Raisecom(config)# **logging host 10.0.0.1 local7 alerts**

[Related commands]

Commands	Description
Logging console	Enable output direction of log console
logging monitor	Enable output direction of log monitor
logging file	Enable output direction of log file
logging on	Enable log function
logging time-stamp	Set time stamp of log information
logging rate	Set output speed of log
show logging	Show log information

1.4 logging monitor

[Function]

Configure and start to output log information to monitor and paramter, **no** format command will disable this function.

[Command Format]

logging monitor {<0-7> | *alerts* | *critical* | *debugging* | *emergencies* | *errors* | *informational* | *notifications* | *warnings*}

no logging monitor

[Parameter]

<0-7>: log grade

alerts: need action immediately (severity=1)

critical: serious state (severity =2)

debugging: debug information (severity =7)
wmergencies: system can not use (severity =0)
wrrors: error condition (severity =3)
informational: informational event (severity =6)
notifications: normal but critical event (severity =5)
warnings: warning condition (severity =4)

[Default]

Disable

[Command Modes]

Global configuration mode; privileged user.

[Executing Command Instruction]

Configure output log information to monitor by this command.

Severity description:

Grade keywords	Grade	Description
emergencies	0	System not available
alerts	1	Need action immediately
critical	2	Serious event
errors	3	Error event
warnings	4	Warning event
notifications	5	Normal but critical
informational	6	Inform message
debugging	7	Debug information

[Explanation of command execution echo]

Set monitor logging information successfully

[Example]

This command set record log grade of monitor is alters, all message that is lower than it will output to monitor:

Raisecom(config)#**logging monitor alerts**

[Related commands]

Commands	Description
Logging console	Enable output direction of log console
logging host	Enable output direction of log host
logging file	Enable output direction of log file
logging on	Enable the log function
logging time-stamp	Set time stamp of log information
logging rate	Set output speed of log
show logging	show log information

1.5 logging on

[Function]

Use **logging on** to enable log function, use **no logging on** to disable log function.

[Command Format]

[no] logging on

[Default]

Log function is enabled

[Command Modes]

Global configuration mode; privileged user.

[Executing Command Instruction]

Enable log function

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Enable log function:

Raisecom(config)#**logging on**

[Related commands]

Commands	Description
Logging console	enable output direction of log console
logging monitor	enable output direction of log monitor
logging file	enable output direction of log file
logging time-stamp	Set time stamp of log information
logging rate	set output speed of log
show logging	show log information

1.6 logging rate

[Function]

Set sending speed of log information, use **no** to restore default setting.

[Command Format]

logging rate <1-65535>

no logging rate

[Parameter]

<1-1000>: Log number to send every second

[Default]

Not limit sending speed of log

[Command Modes]

Global configuration mode and Privileged EXEC

[Executing Command Instruction]

Set send speed of log information

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Set every second to send 100 item logs most:

Raisecom(config)# **logging rate 100**

[Related commands]

Commands	Description
Logging console	enable output direction of log console
logging monitor	enable output direction of log monitor
logging file	enable output direction of log file
logging time-stamp	Set time stamp of log information
show logging	show log information

1.7 logging time-stamp

[Function]

Set time stamp of log information, use **no** to restore default value.

[Command Format]

logging time-stamp {*standard* / *relative-start* / *null*}

[no] logging time-stamp

[Parameter]

date-time: Absolute time after startup

relative-start: relative time of system enabled

null: not add time stamp

[Default]

Use date-time

[Command Modes]

Global configuration mode and Privileged EXEC

[Executing Command Instruction]

Use this command to set time stamp information of system using.

Date-time mmm-dd-yyyy hh-mm-ss

Relative time hh-mm-ss

[Explanation of command execution echo]

Set successfully.

Set unsuccessfully.

[Example]

Enable log relative time:

Raisecom(config)#**logging time-stamp relative-start**

[Related commands]

Commands	Description
Logging console	enable output direction of log console
logging monitor	enable output direction of log monitor
logging file	enable output direction of log file
logging rate	Set output speed of log
show logging	show log information

1.8 show logging

[Function]

Show log information.

[Command Format]

show logging [*file*]

[Parameter]

file: show the logging information which is stored in the file.

[Command Modes]

Privileged EXEC; privileged user.

[Executing Command Instruction]

Use this command to show the logging configuration information or logging information in the logging information saved in the logging file.

[Explanation of command execution echo]

Show logging information:

Raisecom#**show logging**

Syslog logging: enable, 0 messages dropped, messages rate-limited 0 per second

Console logging: enable, level=debug ,22 Messages logged

Monitor logging: disable, level=info ,0 Messages logged

Time-stamp logging messages: enable

Log host Information:

<i>Target Address</i>	<i>Level</i>	<i>Facility</i>	<i>Sent</i>	<i>Drop</i>

192.168. 1. 9	debug	local7	11	11
192.168. 1.185	debug	local7	11	11

Show the information saved in the logging file:

Raisecom#show logging file

Logging information in file

```
DEC-31-1999 00:04:45 SYS-I-START-A: System startup
DEC-31-1999 00:16:40 SYS-I-START-A: System startup
DEC-31-1999 03:54:37 SYS-I-START-A: System startup
DEC-31-1999 05:24:22 SYS-I-WRITE-A: Write system configuration
DEC-31-1999 04:02:35 SYS-I-START-A: System startup
DEC-31-1999 05:34:36 SYS-I-WRITE-A: Write system configuration
DEC-31-1999 05:37:41 SYS-I-WRITE-A: Write system configuration
```

[Example]

Show the log information saved in the file:

Raisecom#show logging file

[Related commands]

Commands	Description
Logging console	Start the console output direction of the logging file.
logging monitor	Start the monitor output direction of the logging file.
logging file	Start the output direction of logging file.
logging time-stamp	Set the time-stamp of logging information.



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